



SEQUENCE LISTING

<110> Colyer  
Craig  
Maschio  
Mezna

<120> Compositions And Methods For Monitoring The  
Modification State Of A Pair Of Polypeptides

<130> colyer 4256/79245

<140> 09/259,658

<141> 1999-02-26

<160> 59

<170> PatentIn Ver. 2.1

<210> 1  
<211> 43  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Protein binding  
motif.

<400> 1  
His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
1 5 10 15  
Ala Gln Leu Glu Gln Glu Asn Ala Gln Leu Glu Gln Glu Ile Ala Gln  
20 25 30  
Leu Glu Gln Glu Ile Ala Lys Leu Glu Gln Glu  
35 40

<210> 2  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Protein binding  
motif.

<400> 2

Ile Ala Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Asn Ala  
1 5 10 15

Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu  
20 25 30

Lys Gln Lys  
35

<210> 3

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Protein binding  
motif.

<220>

<221> SITE

<222> (2)

<223> Xaa at position 2 can be any amino acid.

<400> 3

Tyr Xaa Asp Glu Asp  
1 5

<210> 4

<211> 41

<212> PRT

<213> Homo sapiens

<400> 4

Ile Leu Ile Ser Leu Glu Ser Glu Glu Arg Gly Glu Leu Glu Arg Ile  
1 5 10 15

Leu Ala Asp Leu Glu Glu Glu Asn Arg Asn Leu Gln Ala Glu Tyr Asp  
20 25 30

Arg Leu Lys Gln Gln His Glu His Lys  
35 40

<210> 5

<211> 32

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 5

Met Lys Gln Leu Glu Asp Lys Val Glu Glu Leu Leu Ser Lys Asn Tyr  
1 5 10 15

His Leu Glu Asn Glu Val Ala Arg Leu Lys Lys Leu Val Gly Glu Arg  
20 25 30

<210> 6

<211> 39

<212> PRT

<213> *Homo sapiens*

<400> 6

Thr Asp Thr Leu Gln Ala Glu Thr Asp Gln Leu Glu Asp Glu Lys Ser  
1 5 10 15

Ala Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu  
20 25 30

Glu Phe Ile Leu Ala Ala His  
35

<210> 7

<211> 39

<212> PRT

<213> *Homo sapiens*

<400> 7

Ile Ala Arg Leu Glu Glu Lys Val Lys Thr Leu Lys Ala Gln Asn Ser  
1 5 10 15

Glu Leu Ala Ser Thr Ala Asn Met Leu Arg Glu Gln Val Ala Gln Leu  
20 25 30

Lys Gln Lys Val Met Asn His  
35

<210> 8

<211> 38

<212> PRT

<213> Escherichia coli

<400> 8

Val Asp Lys Leu Gly Ala Leu Glu Glu Arg Arg Lys Val Leu Gln Val  
1 5 10 15

Lys Thr Glu Asn Leu Gln Ala Glu Arg Asn Ser Arg Ser Lys Ser Ile  
20 25 30

Gly Gln Ala Lys Ala Arg  
35

<210> 9

<211> 32

<212> PRT

<213> Escherichia coli

<400> 9

Glu Pro Leu Arg Leu Glu Val Asn Lys Leu Gly Glu Glu Leu Asp Ala  
1 5 10 15

Ala Lys Ala Glu Leu Asp Ala Leu Gln Ala Glu Ile Arg Asp Ile Ala  
20 25 30

<210> 10

<211> 33

<212> PRT

<213> Thermus thermophilus

<400> 10

Asp Leu Glu Ala Leu Leu Ala Leu Asp Arg Glu Val Gln Glu Leu Lys  
1 5 10 15

Lys Arg Leu Gln Glu Val Gln Thr Glu Arg Asn Gln Val Ala Lys Arg  
20 25 30

Val

<210> 11

<211> 32

<212> PRT

<213> *Thermus thermophilus*

<400> 11

Glu Ala Leu Ile Ala Arg Gly Lys Ala Leu Gly Glu Glu Ala Lys Arg  
1 5 10 15

Leu Glu Glu Ala Leu Arg Glu Lys Glu Ala Arg Leu Glu Ala Leu Leu  
20 25 30

<210> 12

<211> 30

<212> PRT

<213> *Escherichia coli*

<400> 12

Leu Arg Gly Ala Glu Lys Leu Arg Glu Glu Leu Asp Phe Leu Lys Ser  
1 5 10 15

Val Phe Arg Pro Glu Ile Ile Ala Ala Ile Ala Glu Ala Arg  
20 25 30

<210> 13

<211> 26

<212> PRT

<213> *Escherichia coli*

<400> 13

Ala Glu Tyr His Ala Ala Arg Glu Gln Gln Gly Phe Cys Glu Gly Arg  
1 5 10 15

Ile Lys Asp Ile Glu Ala Lys Leu Ser Asn  
20 25

<210> 14

<211> 32

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 14

Met Lys Gln Ile Glu Asp Lys Ile Glu Glu Ile Leu Ser Lys Ile Tyr  
1 5 10 15

His Ile Glu Asn Glu Ile Ala Arg Ile Lys Lys Leu Ile Gly Glu Arg  
 20 25 30

<210> 15

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
 peptide for coiled coil protein binding.

<400> 15

Glu Trp Glu Ala Leu Glu Lys Lys Leu Ala Ala Leu Glu Ser Lys Leu  
 1 5 10 15

Gln Ala Leu Glu Lys Lys Leu Glu Ala Leu Glu His Gly  
 20 25

<210> 16

<211> 32

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 16

Met Lys Gln Ile Glu Asp Lys Leu Glu Glu Ile Leu Ser Lys Leu Tyr  
 1 5 10 15

His Ile Glu Asn Glu Leu Ala Arg Ile Lys Lys Leu Leu Gly Glu Arg  
 20 25 30

<210> 17

<211> 25

<212> PRT

<213> *Escherichia coli*

<400> 17

Gln Glu Lys Thr Ala Leu Asn Met Ala Arg Phe Ile Arg Ser Gln Thr

1	5	10	15
---	---	----	----

Leu Thr Leu Leu Glu Lys Leu Asn Glu  
20 25

<210> 18  
<211> 24  
<212> PRT  
<213> Escherichia coli

<400> 18  
Asp Glu Gln Ala Asp Ile Cys Glu Ser Leu His Asp His Ala Asp Glu  
1 5 10 15

Leu Tyr Arg Ser Cys Leu Ala Arg  
20

<210> 19  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 19  
Leu Ile Leu Ile Cys Leu Leu Leu Ile Cys Ile Ile Val Met Leu Leu  
1 5 10 15

<210> 20  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> SITE  
<222> (1)  
<223> Xaa at position 1 can be W or L.

<220>  
<221> SITE  
<222> (5)  
<223> Xaa at position 5 can be any amino acid.

<220>  
<223> Description of Artificial Sequence: Caspase 1,4,5  
cleavage site.

<400> 20  
Xaa Glu His Asp Xaa  
1 5

<210> 21  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> SITE  
<222> (3)  
<223> Xaa at position 3 can be any amino acid.

<220>  
<221> SITE  
<222> (5)  
<223> Xaa at position 5 can be any amino acid.

<220>  
<223> Description of Artificial Sequence:Caspase 2,3,7  
cleavage site.

<400> 21  
Asp Glu Xaa Asp Xaa  
1 5

<210> 22  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> SITE  
<222> (1)  
<223> Xaa at position 1 can be L or V.

<220>  
<221> SITE  
<222> (3)  
<223> Xaa at position 3 can be any amino acid.

<220>  
<221> SITE  
<222> (5)  
<223> Xaa at position 5 can be any amino acid.



<220>

<223> Description of Artificial Sequence:Caspase 6,8,9  
cleavage site.

<400> 22

Xaa Glu Xaa Asp Xaa  
1 5

<210> 23

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<221> SITE

<222> (5)

<223> Xaa at position 5 can be any amino acid.

<220>

<223> Description of Artificial Sequence:Factor Xa  
cleavage site.

<400> 23

Ile Glu Gly Arg Xaa  
1 5

<210> 24

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<221> SITE

<222> (3)

<223> Xaa at position 3 can be any amino acid.

<220>

<221> SITE

<222> (5)

<223> Xaa at position 5 can be any amino acid.

<220>

<221> SITE

<222> (7)

<223> Xaa at position 7 can be S or G.

<220>

<223> Description of Artificial Sequence:TEV protease  
cleavage site.

<400> 24

Glu Asn Xaa Tyr Xaa Gln Xaa  
1 5

<210> 25

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay chymotrypsin activity.

<400> 25

His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
1 5 10 15

Ala Gln Leu Glu Gln Glu Asn Ala Tyr Leu Glu Gln Glu Ile Ala Gln  
20 25 30

Leu Glu Gln Glu Ile Ala Lys Leu Glu Gln Glu  
35 40

<210> 26

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay chymotrypsin activity.

<400> 26

Ile Ala Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Asn Ala  
1 5 10 15

Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu  
20 25 30

Lys Gln Lys  
35

<210> 27  
<211> 43  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic  
peptide used to assay thrombin activity.

<400> 27  
His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
1 5 10 15  
Ala Gln Leu Glu Gln Glu Asn Arg Gln Leu Glu Gln Glu Ile Ala Gln  
20 25 30  
Leu Glu Gln Glu Ile Ala Lys Leu Glu Gln Glu  
35 40

<210> 28  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Synthetic  
peptide used to assay thrombin activity.

<400> 28  
Ile Ala Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Asn Ala  
1 5 10 15  
Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu  
20 25 30  
Lys Gln Lys  
35

<210> 29  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TEV protease  
recognition site.

<220>

<221> SITE

<222> (2)

<223> Xaa at position 2 can be any amino acid.

<220>

<221> SITE

<222> (3)

<223> Xaa at position 3 can be any amino acid.

<220>

<221> SITE

<222> (5)

<223> Xaa at position 5 can be any amino acid.

<400> 29

Glu Xaa Xaa Tyr Xaa Gln Ser

1

5

<210> 30

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay TEV protease.

<400> 30

His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile

1

5

10

15

Ala Gln Leu Glu Gln Glu Asn Ala Tyr Leu Gln Ser Glu Ile Ala Gln

20

25

30

Leu Glu Gln Glu Ile Ala Lys Leu Glu Gln Glu

35

40

<210> 31

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay TEV protease.

<400> 31

Ile Ala Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Asn Ala

1

5

10

15

Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu

20

25

30

Lys Gln Lys

35

<210> 32

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<221> SITE

<222> (3)

<223> Xaa at position 3 can be any amino acid.

<220>

<221> SITE

<222> (6)

<223> Xaa at position 6 can be any amino acid.

<220>

<223> Description of Artificial Sequence:Protein kinase  
A modification site.

<400> 32

Arg Arg Xaa Arg Arg Xaa Ser

1

5

<210> 33

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<221> SITE

<222> (2)

<223> Xaa at position 2 can be any amino acid.

<220>  
<221> SITE  
<222> (3)  
<223> Xaa at position 3 can be any amino acid.

<220>  
<221> SITE  
<222> (5)  
<223> Xaa at position 5 can be any amino acid.

<220>  
<223> Description of Artificial Sequence:CaM kinase II  
modification site.

<400> 33  
Arg Xaa Xaa Ser Xaa  
1 5

<210> 34  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> SITE  
<222> (2)  
<223> Xaa at position 2 can be any amino acid.

<220>  
<221> SITE  
<222> (4)  
<223> Xaa at position 4 can be any amino acid.

<220>  
<221> SITE  
<222> (5)  
<223> Xaa at position 5 can be any amino acid.

<220>  
<223> Description of Artificial Sequence:S6 kinase  
modification site.

<400> 34  
Arg Xaa Arg Xaa Xaa Ser  
1 5

<210> 35  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Peptide derived  
from GCN4 which contains a phosphorylation site.

<400> 35

Arg Met Lys Gln Leu Glu Asp Lys Val Glu Glu Leu Leu Ser Lys Thr  
1 5 10 15

Tyr His Leu Glu Asn Glu Val Ala Cys Leu Lys Lys Leu Val Gly Glu  
20 25 30

Arg Ala Ala Lys  
35

<210> 36  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Peptide derived  
from GCN4.

<400> 36

Arg Met Lys Gln Leu Glu Asp Gln Val Arg Arg Leu Arg Arg Lys Ser  
1 5 10 15

Tyr His Leu Glu Asn Glu Val Ala Cys Leu Lys Lys Leu Val Gly Glu  
20 25 30

Arg Ala Ala Lys  
35

<210> 37  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Peptide derived

from GCN4.

<400> 37

Arg Met Lys Gln Leu Glu Asp Gln Val Arg Arg Leu Arg Arg Lys Thr  
1 5 10 15

Tyr His Leu Glu Asn Glu Val Ala Cys Leu Lys Lys Leu Val Gly Glu  
20 25 30

Arg Ala Ala Lys  
35

<210> 38

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
coiled coil peptide that contains a phosphorylation  
site.

<400> 38

His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
1 5 10 15

Arg Arg Leu Arg Arg Glu Ser Ala Gln Leu Glu Gln Glu Ile Ala Gln  
20 25 30

Leu Glu Gln Glu Ile Ala Lys Leu Glu Gln Glu  
35 40

<210> 39

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to form a coiled coil oligomer.

<400> 39

Ile Ala Gln Leu Lys Gln Glu Ile Ala Gln Leu Lys Gln Lys Asn Ala  
1 5 10 15

Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu



20 25 30  
 Lys Gln Lys  
 35  
  
 <210> 40  
 <211> 43  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:Synthetic  
 peptide used to assay CaMK-II activity.  
  
 <400> 40  
 His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
 1 5 10 15  
 Ala Gln Leu Arg Gln Glu Ser Ala Gln Leu Glu Gln Glu Ile Ala Gln  
 20 25 30  
 Leu Glu Gln Glu Ile Ala Lys Leu Glu Gln Glu  
 35 40  
  
 <210> 41  
 <211> 35  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:Synthetic  
 peptide used to assay CaMK-II activity.  
  
 <400> 41  
 Ile Ala Gln Leu Lys Gln Glu Ile Ala Gln Leu Lys Gln Lys Asn Ala  
 1 5 10 15  
 Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu  
 20 25 30  
 Lys Gln Lys  
 35  
  
 <210> 42  
 <211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay S6 kinase activity.

<400> 42

His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
1 5 10 15

Ala Arg Leu Arg Gln Glu Ser Ala Gln Leu Glu Gln Glu Ile Ala Gln  
20 25 30

Leu Glu Gln Glu Ile Ala Lys Leu Glu Gln Glu  
35 40

<210> 43

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay S6 kinase activity.

<400> 43

Ile Ala Gln Leu Lys Gln Glu Ile Ala Gln Leu Lys Gln Lys Asn Ala  
1 5 10 15

Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu  
20 25 30

Lys Gln Lys  
35

<210> 44

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide based upon p67srf glycosylation acceptor  
site.

<400> 44  
 Ser Ala Val Ser Ser Ala Asp Gly Thr Val Leu  
 1 5 10

<210> 45  
 <211> 43  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Synthetic  
 peptide based upon p67srf glycosylation acceptor  
 site.

<400> 45  
 His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
 1 5 10 15  
 Ala Gln Leu Ser Ala Val Ser Ser Ala Leu Gly Thr Val Leu Ala Gln  
 20 25 30  
 Leu Glu Gln Glu Ile Ala Lys Leu Glu Gln Glu  
 35 40

<210> 46  
 <211> 35  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Synthetic  
 peptide based upon p67srf glycosylation acceptor  
 site.

<400> 46  
 Ile Ala Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Asn Ala  
 1 5 10 15  
 Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu  
 20 25 30  
 Lys Gln Lys  
 35

<210> 47

<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay chymotrypsin activity.

<400> 47

Ile Ala Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Asn Ala  
1 5 10 15

Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu  
20 25 30

Lys Gln Lys  
35

<210> 48  
<211> 43  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay chymotrypsin activity.

<400> 48

His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
1 5 10 15

Ala Gln Leu Glu Gln Glu Asn Ala Tyr Leu Glu Gln Glu Ile Ala Gln  
20 25 30

Leu Glu Gln Glu Ile Ala Lys Leu Glu Gln Glu  
35 40

<210> 49  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay carboxypeptidase activity.

<400> 49

His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
1 5 10 15

Ala Gln Leu Glu Gln Glu Asn Ala Gln Leu Glu Gln Glu Ile Ala Gln  
20 25 30

Leu

<210> 50

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay aminopeptidase activity.

<400> 50

Leu Glu Gln Glu Asn Ala Tyr Leu Glu Gln Glu Ile Ala Gln Leu Glu  
1 5 10 15

Gln Glu Ile Ala Lys Leu Glu Gln Glu Gly Gly His His His His His  
20 25 30

His

<210> 51

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay exopeptidase activity.

<400> 51

Ile Ala Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Asn Ala  
1 5 10 15

Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu  
20 25 30

Lys Gln Lys

<210> 52  
 <211> 43  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Synthetic  
 peptide used to assay TEV protease.

<400> 52  
 His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
           1                          5                          10                          15  
 Ala Gln Leu Glu Gln Glu Asn Ala Tyr Leu Gln Ser Glu Ile Ala Gln  
                           20                          25                          30  
 Leu Glu Gln Glu Ile Ala Lys Leu Glu Gln Glu  
                           35                          40

<210> 53  
 <211> 35  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Synthetic  
 peptide used to assay TEV protease.

<400> 53  
 Ile Ala Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Asn Ala  
           1                          5                          10                          15  
 Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu  
                           20                          25                          30  
 Lys Gln Lys  
           35

<210> 54  
 <211> 43  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay thrombin activity.

<400> 54

His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
1 5 10 15  
Ala Gln Leu Glu Gln Glu Asn Arg Gln Leu Glu Gln Glu Ile Ala Gln  
20 25 30  
Leu Glu Gln Glu Ile Ala Lys Leu Glu Gln Glu  
35 40

<210> 55

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay thrombin activity.

<400> 55

Ile Ala Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Asn Ala  
1 5 10 15  
Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu  
20 25 30  
Lys Gln Lys  
35

<210> 56

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay caspase activity.

<400> 56

His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
1 5 10 15

Ala Gln Leu Glu Asp Glu Asn Asp Gln Leu Glu Gln Glu Ile Ala Gln  
20 25 30

Leu Glu Gln Glu Ile Ala Lys Leu Glu Gln Glu  
35 40

<210> 57

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay caspase activity.

<400> 57

Ile Ala Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Asn Ala  
1 5 10 15

Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Ile Cys Gln Leu  
20 25 30

Lys Gln Lys  
35

<210> 58

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay geranylgeranyl transferase  
activity.

<400> 58

His His His His His His Gly Gly Ile Ala Gln Leu Glu Gln Glu Ile  
1 5 10 15

Ala Gln Leu Glu Gln Glu Asn Lys Gln Leu Glu Cys Ile Ala Leu  
20 25 30

<210> 59

<211> 23

<212> PRT



<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic  
peptide used to assay geranylgeranyl transferase  
activity.

<400> 59

Ile Ala Gln Leu Lys Gln Lys Ile Ala Gln Leu Lys Gln Lys Asn Ala  
1 5 10 15

Cys Leu Lys Gln Lys Ile Ala  
20